

3D ULTRASOUND-BASED INSTRUMENT FOR NON-INVASIVE MEASUREMENT OF AMNIOTIC FLUID VOLUME

ABSTRACT OF THE DISCLOSURE

5 A hand-held 3D ultrasound instrument is disclosed which is used to non-invasively
and automatically measure amniotic fluid volume in the uterus requiring a minimum of
operator intervention. Using a 2D image-processing algorithm, the instrument gives
automatic feedback to the user about where to acquire the 3D image set. The user acquires
one or more 3D data sets covering all of the amniotic fluid in the uterus and this data is then
10 processed using an optimized 3D algorithm to output the total amniotic fluid volume
corrected for any fetal head brain volume contributions.




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